



Europäisches Patentamt
European Patent Office
Office européen des brevets

⑩ Publication number:

0 335 843

A2

⑪

EUROPEAN PATENT APPLICATION

⑫ Application number: 89830139.5

⑬ Int. Cl. 4: F 21 S 1/06

⑯ Date of filing: 31.03.89

⑭ Priority: 31.03.88 IT 2005788

⑮ Applicant: FONDERIA RECROSIO S.p.A.
Via Sella, 19
I-20094 Corsico (Milano) (IT)

⑯ Date of publication of application:
04.10.89 Bulletin 89/40

⑯ Inventor: Recrosio, Ernesto
Fonderie Recrosio S.p.A. Via Sella, 19
I-20094 Corsico (Milano) (IT)

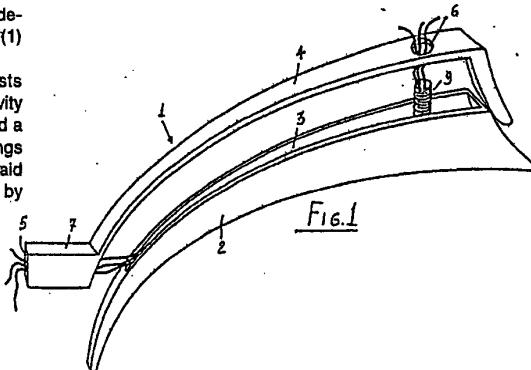
⑰ Designated Contracting States:
AT CH DE ES FR GB GR LI NL

⑯ Representative: Cicogna, Franco
Ufficio Internazionale Brevetti Dott. Prof. Franco Cicogna
Via Visconti di Modrone, 14/A
I-20122 Milano (IT)

⑲ Improved arm chandelier.

⑳ The present invention relates to an improved arm chandelier, comprising a body therefrom extends at least an arm (1) supporting a lighting body.

The main feature of the invention is that each arm (1) consists of an elongated element which, in its inside, comprises a cavity (3) which is open at the top; there being moreover provided a closing body (4) which, at its ends, is provided with openings allowing for an electric wire to pass through for housing in said cavity; the closing body (4) being restrained in its position by means of the lighting body (8).



EP 0 335 843 A2

Description**IMPROVED ARM CHANDELIER****BACKGROUND OF THE INVENTION**

5

The present invention relates to an improved arm chandelier structure.

As is known, great difficulties are presently encountered in making the electrical wiring in conventional chandeliers provided with shaped arms which are generally made by casting.

In a known solution, the electric wire is supported on the top face of the arm not exposed to view; this type of solution, however, is not suitable to meet the safety rules of some countries.

For overcoming the above mentioned difficulty, there are presently made cast chandelier arms in which, during the casting step, there are engaged an inner tubular element therethrough the electrical wire is caused to pass.

While this solution is rather satisfactory from the operative standpoint, as well as from the aesthetic standpoint, it has the drawback that the electrical wire can be introduced only by complex operations consisting mainly of pushing said electrical wire into the mentioned tubular element, this operation causing frequent jams of the wire.

Moreover, such a solution is rather expensive since it requires that a lot of operations be carried out during the casting of the chandelier in order to engage in each arm a respective electrical wire holding tubular element.

SUMMARY OF THE INVENTION

Accordingly, the aim of the present invention is to overcome the above mentioned drawbacks, by providing an improved arm chandelier structure affording the possibility of easily introducing the electrical wire into each arm as the arm is cast.

Within the scope of the above mentioned aim, a main object of the present invention is to provide such a chandelier structure which can be easily and quickly made with any desired shape.

Another object of the present invention is to provide such a chandelier structure in which the electrical wires can be easily and quickly applied and which, moreover, can be made starting from easily commercially available material and elements.

According to one aspect of the present invention, the above mentioned task and objects, as well as yet other objects, which will become more apparent hereinafter, are achieved by an improved arm chandelier structure, comprising a body therefrom extends at least an arm supporting a lighting body, characterized in that said arm consists of an elongated element having, in its inside, a cavity open at the top, there being moreover provided a closing body defining, at its ends, openings therethrough an electrical wire is threaded to be housed in said cavity, said closing body being restrained in its

position by said lighting body.

BRIEF DESCRIPTION OF THE DRAWINGS

Further characteristics and advantages of the invention will become more apparent hereinafter from the following detailed description of two preferred, though not exclusive, embodiments thereof, which are illustrated, by way of an indicative but not limitative example, in the accompanying drawings, where:

- 15 Figure 1 is a schematic exploded perspective view illustrating a first possible embodiment of the chandelier according to the present invention;
- 20 Figure 2 shows an arm of the chandelier, in cross-sectional view;
- 25 Figure 3 schematically shows the coupling of the lighting body;
- 30 Figure 4 shows another possible embodiment of the chandelier arm;
- 35 Figure 5 is a cross-sectional view of the chandelier arm shown in Figure 4; and
- 40 Figure 6 shows the lighting body coupled to the chandelier arm.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference to the figures of the accompanying drawings, the Improved arm chandelier structure according to the invention, comprises a chandelier central body therefrom one or more chandelier arms extend.

As shown in Figure 1 to 3, the chandelier arm, which is overall indicated at the reference number 1, comprises an elongated element 2, which can have any suitable shapes and which is characterized in that it is provided, in its inside, with a cavity 3 which is open at the top.

For closing the cavity 3, there is provided a closing body 4, which is so shaped as to cover at least the portion in which there is formed the opening of the cavity 3; alternatively, said closing body 4 may project from the cavity, so as to overlap, at least partially, the elongated element 2.

More specifically, the closing body 4 is provided, at its end portions, with a first and second openings, which have been indicated respectively at the reference numbers 5 and 6, and which allow for an electrical wire to pass therethrough.

In particular, the opening 5 is formed in an end piece 7, for coupling with the chandelier body, while the opening 6 is provided at the attachment region of the lighting body, indicated generally at the reference number 8.

At the mentioned opening 6, the elongated element 2 is provided with a threaded bush 9, for coupling the lighting body 8, therewith can engage a

nut 10 or, possibly, said lighting body 8 which, in this way, will practically clamp the closing body 4 on the elongated element 2, so as to provide a firm coupling.

As shown in figures 4 to 6, the arm indicated at the reference number 1', is provided with an elongated element, always indicated at 2, on the cavity 3 of which there is superimposed a closing element 20. At the end portion of said arm near the attachment region with the chandelier body, the arm is provided with a pair of side ears 21 adjoining a corresponding portion of the elongated element 2, so as to also provide a side clamping effect.

In this embodiment, the opening for the passage of the electrical wire, near the coupling end with the lighting body, consists of a cut 22 arranged between the ears 21, whereas, at the other end, there is provided an opening, also indicated at 6 and analogous to the opening shown in figure 1.

Even in this case, the closing body can be clamped onto the elongated element by means of the lighting body.

With the disclosed arrangement, the possibility is provided of easily threading the electrical wires in the inside of the chandelier arm, without the need of carrying out complex operations and, moreover, all of the electrical system can be easily inspected.

Another important feature of the present invention is that the top closing body and elongated element, which are associated with one another in order to form the arm, can be made both of different material and in different colours thereby providing good aesthetic effects.

From the above disclosure it should be apparent that the improved arm chandelier according to the present invention fully achieves the intended aim and objects.

In particular, it is to be pointed out that the provision of a chandelier arm made in two parts which can be associated with one another through the lighting body, affords the possibility of greatly simplifying all of the chandelier construction operations.

While the invention has been disclosed and illustrated with reference to some preferred embodiments thereof, it should be apparent that the disclosed embodiments are susceptible to several modifications and variations, all of which will come within the scope and spirit of the appended claims.

Claims

1. An improved arm chandelier structure, comprising a body therefrom extends at least an arm supporting a lighting body, characterized in that said arm consists of an elongated element having, in its inside, a cavity open at the top, there being moreover provided a closing body defining, at its ends, openings therethrough an electric wire is threaded to be housed in said cavity, said closing body being restrained in its position by said lighting body;

2. An improved arm chandelier according to Claim 1, characterized in that said openings are

formed at the end portions of said closing body.

3. An improved arm chandelier according to the preceding Claims, characterized in that the first opening, facing said chandelier body, is made in the attachment end piece of the arm to the body.

4. An improved arm chandelier according to one or more of the preceding Claims, characterized in that said chandelier comprises a closing cover having, at the body attachment end portions, ear members laterally adjoining said elongated element with a mating configuration, the opening facing said body consisting of a cut formed between said ear members.

5. An improved arm chandelier according to one or more of the preceding Claims, characterized in that said chandelier comprises a threaded bush rigidly associated with the elongated element and adapted to be engaged in the opening defined by said arm, for applying the lighting body, suitable to form a fixing element of the closing body.

6. An improved arm chandelier according to one or more of the preceding Claims, characterized in that the closing body is made both of different materials and different colours and shapes with respect to the elongated element.

5

10

15

20

25

30

35

40

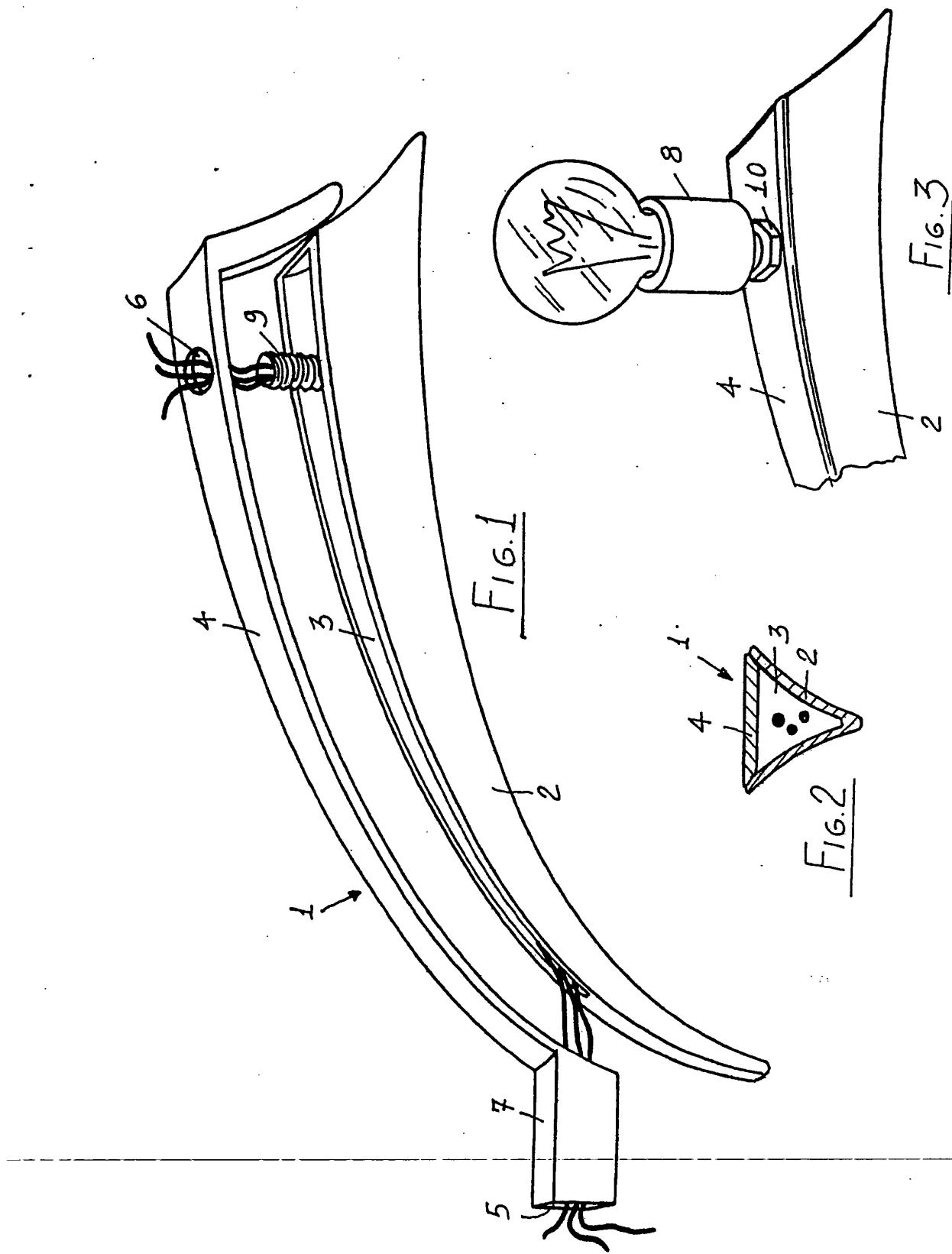
45

50

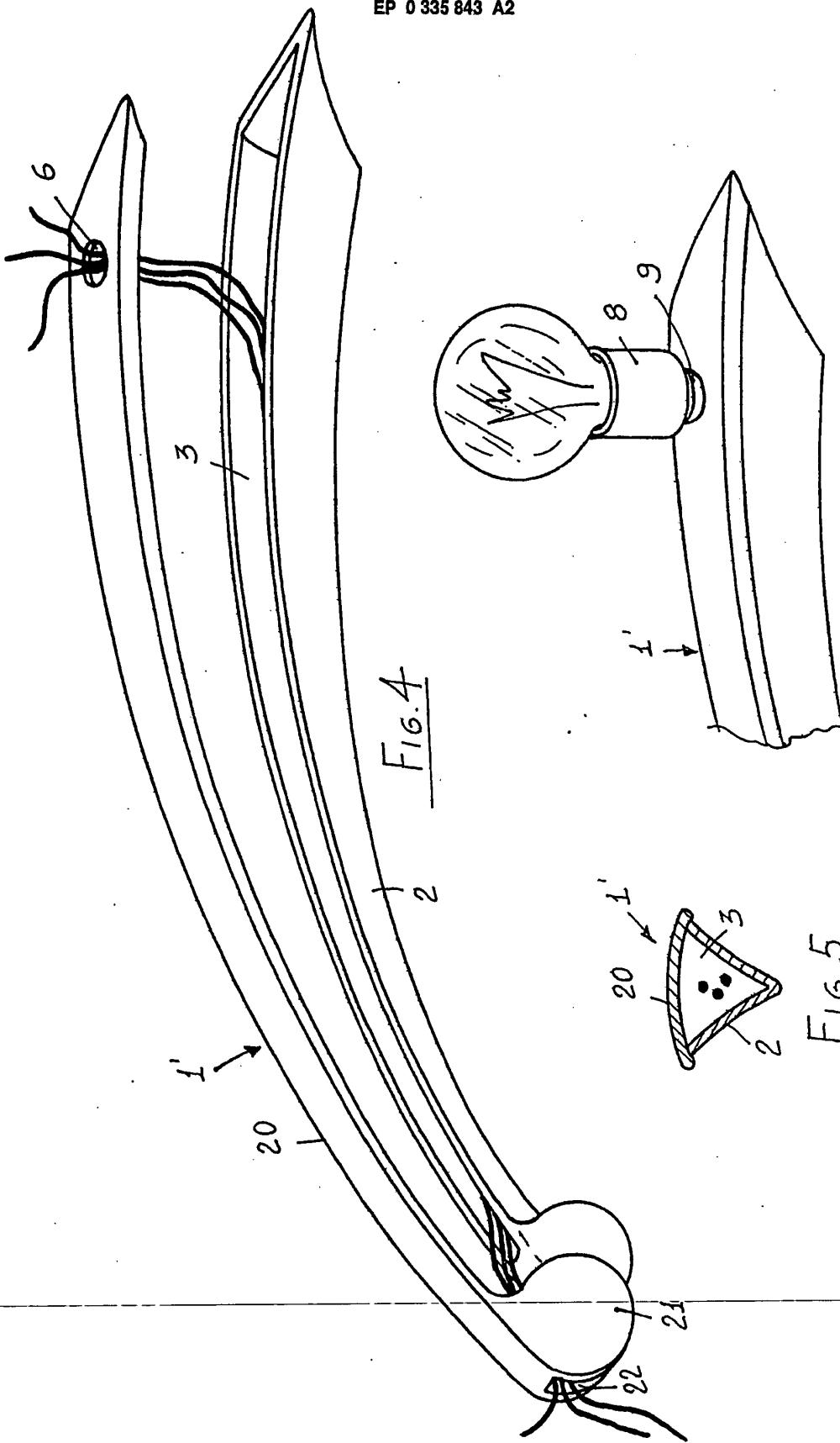
55

60

65



BEST AVAILABLE COPY



BEST AVAILABLE COPY